ABSTRACT

A rigid extractor is revealed, a rigid device for use in percutaneous procedures to remove kidney stones directly from the kidneys. The rigid extractor uses an outer rigid cannula and an inner cannula to control a basket retriever for removing kidney stones and calculi from a kidney of a patient. The extractor is desirably used with a fluoroscope, in which the surgeon maneuvers the extractor with the aid of a view of the operating field provided by the fluoroscope. The surgeon then maneuvers the extractor to grasp the kidney stones and remove from the patient. The extractor may also be used with a nephroscope. The device may also be used with a retrieval assembly other than a basket, such as a pair of jaws, or a pair of scissors.